



#### Block 1 Retail & Office

- High-efficiency district chilled water plant
- Highly-reflective roof minimizes heat gain
- High-efficiency glazing; replacement of existing glazing with architecturally consistent system

- Preservation of historic façade
- \*Two floors of large floor plates for high technology users

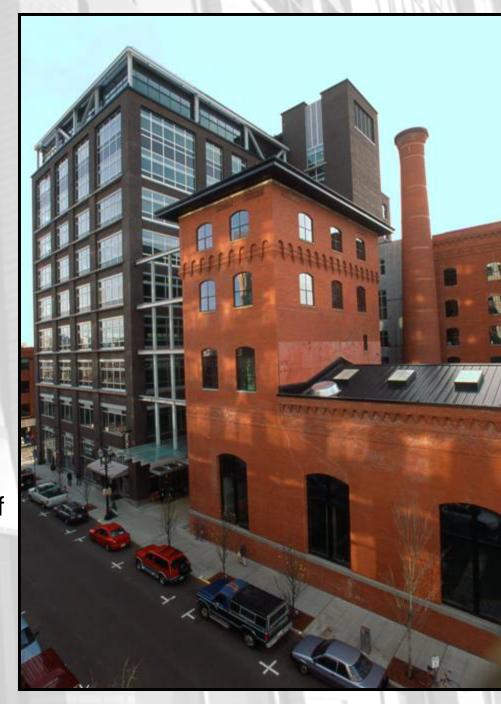


12' ceiling heights

## Block 2

Brewhouse & Office Tower

- Re-use & renovation of historic structures
- Operable windows
- Daylight controls & light shelves
- High-efficiency glazing
- Cold duct HVAC system and use of PES chiller plant
- Use of low VOC materials



### Block 3- Condominium Tower

- Use of PES chilled water on full block
- Waste heat recovery system for domestic hot water
- High-efficiency lighting throughout
- Certified wood flooring & cabinetry – wheat board cabinet cores
- Low VOC finishes & materials
   100% reclaimable, natural
   fiber carpet
- Energy-efficient appliances
- Proper solar orientation of building



## Block 3

Re-development of Armory

- Historic re-use and renovation of existing Armory for Portland Center Stage
- Pursuing LEED Platinum



## Block 4 Retail/Office Tower

- PES chiller plant & cold duct HVAC system
- High-efficiency glazing
- Operable windows, light shelves
- Daylight controls

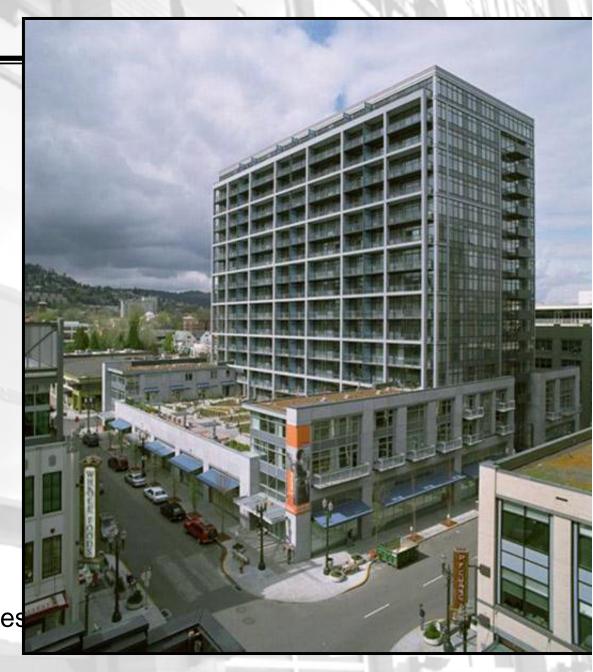
 Building orientation – south facing terrace on 3-story podium with an eco-roof



Photovoltaic solar panels on rooftop & facade

## Block 5 Apartment Tower

- North/South orientation
- High-efficiency glazing
- PES chilled water
- Street level retail
- High-efficiency lighting & appliances
- Low VOC finishes
- Wheat board cabinet cores



Brewery Blocks & LEEP Why do it?

- The only responsible thing to do!
- First LEED project we learned as we went
- Partnered with many other green organizations (NEEA, Energy Trust, OOE, OSD) = broad support for common goal
- Extension of our corporate philosophy – Build lasting value for the community
- Lower energy costs
- Saves on construction waste
- Improved health & productivity better indoor air quality
- Market differentiation





### Benefits

- Greater environmental and social responsibility
- Better environments, both in office spaces and in homes - tangible things people notice:
  - better indoor air quality
  - more natural light
- Control over systems operable windows (single most desired element), task lighting, etc.
- Better employee morale/less absenteeism and higher productivity
- Driver for change in the industry

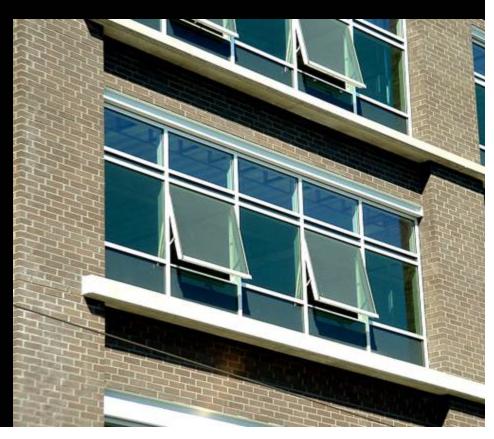


- From existing knowledge and help shape future programs (i.e. LEED core and shell pilot projects, Bonneville partnership for PVs, input on new BETC program legislation, etc.)
- Less exposure to litigation because we positioned ourselves to be proactive
- Leasing and selling at market rates in a down market

# Brewery Blocks & LEED Goals

- Educate tenants on building's sustainable measures via a Tenant Manual
- Push to incorporate energy saving measures20 30 % greater thanOregon Energy Code
- Discover and integrate methods to develop and manage projects in a way that is environmentally sustainable





### Financial Resources

- Tap into all available resources, monetary and non-monetary
- Design assistance support –
   Northwest Energy Efficiency Alliance (daylighting lab)
- Financial assistance State BETC, Energy Trust, City of Portland Green Investment Fund











- together to identify sustainable strategies
- Integrated design approach to achieve optimal energy savings
- Possibilities vs. cost of technology
- Identify other resources (design assistance, funding/tax credits, marketing)
- Everyone gets familiar with their responsibilities throughout the project
- Better planning = better end product = happier clients, tenants, employees, residents







- Real estate development already risk-prone industry
- "If it ain't broke, don't fix it"
- Requires commitment of senior management
- Requires in-house expertise, brain damage

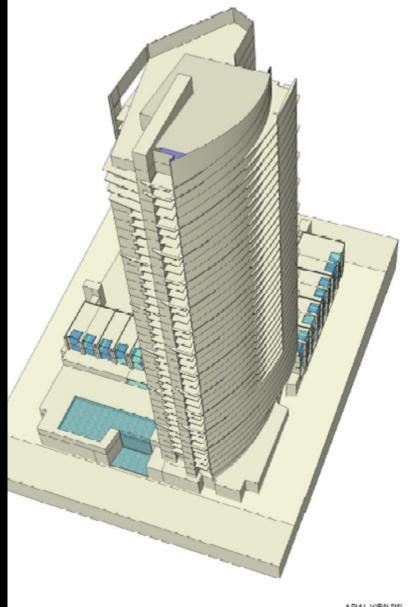
Gerding/Edlen's Ongoing Contribution

- Continue to set aggressive goals for our projects
- Support The NaturalStep and USGBC
- Share our experiences what works and where we find there are still challenges
- Education presentations, project tours, interviews, student case studies

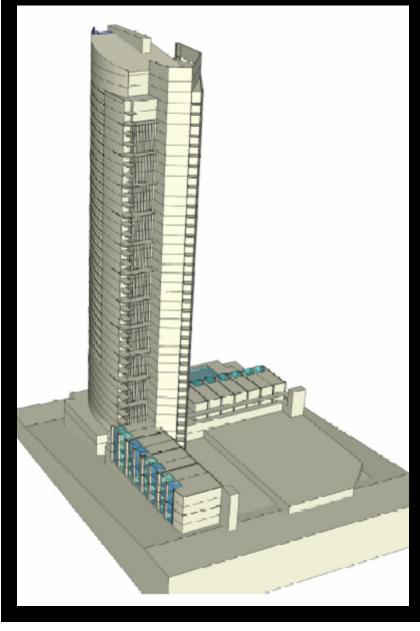


## Gerding/Edlen's Bellevue Project

- 1 or 2 towers
- 42 stories
- Mixed-use residential building
- Anticipated LEED Gold certification



## Gerding/Edlen's Bellevue Project



The building design includes:

- Curtain wall with clear insulated spandrel glass
- Metal and stone accents
- Expected to offer buyers a new level of quality in the region

- Set green goals and objectives explicitly and early on, with participation of entire project team.
- Value simple things.
- Don't be so risk averse as to not consider new possibilities.
- WARNING! Embarking on a course of environmentally responsible projects will change the culture of your company.
- Encourage creativity and open-mindedness.

## **Key Success Factors**

- Strong visible commitment from the owner/client
- A good, serious, 'integrated design process,' where team members are really breaking out of their compartmentalized roles and collaborating strongly, is key
- Always keep in mind, and provide visibility to, the 'Why'
- Be systematic
- Hire people who are outstanding at what they do
- Have fun

Can Old Dogs Learn New Tricks - Take Away Ideas